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* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page for STN Seminar Schedule - N. America
NEWS 2 AUG 10 Time limit for inactive STN sessions doubles to 40
minutes
NEWS 3 AUG 18 COMPENDEX indexing changed for the Corporate Source
(CS) field
NEWS 4 AUG 24 ENCOMPLIT/ENCOMPLIT2 reloaded and enhanced
NEWS 5 AUG 24 CA/CAPplus enhanced with legal status information for
U.S. patents
NEWS 6 SEP 09 50 Millionth Unique Chemical Substance Recorded in
CAS REGISTRY
NEWS 7 SEP 11 WPIDS, WPINDEX, and WPIX now include Japanese FTERM
thesaurus
NEWS 8 OCT 21 Derwent World Patents Index Coverage of Indian and
Taiwanese Content Expanded
NEWS 9 OCT 21 Derwent World Patents Index enhanced with human
translated claims for Chinese Applications and
Utility Models
NEWS 10 NOV 23 Addition of SCAN format to selected STN databases
NEWS 11 NOV 23 Annual Reload of IFI Databases
NEWS 12 DEC 01 FRFULL Content and Search Enhancements
NEWS 13 DEC 01 DGENE, USGENE, and PCTGEN: new percent identity
feature for sorting BLAST answer sets
NEWS 14 DEC 02 Derwent World Patent Index: Japanese FI-TERM
thesaurus added
NEWS 15 DEC 02 PCTGEN enhanced with patent family and legal status
display data from INPADOCDB
NEWS 16 DEC 02 USGENE: Enhanced coverage of bibliographic and
sequence information

NEWS EXPRESS MAY 26 09 CURRENT WINDOWS VERSION IS V8.4,
AND CURRENT DISCOVER FILE IS DATED 06 APRIL 2009.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 23:44:39 ON 16 DEC 2009

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.22

0.22

FILE 'REGISTRY' ENTERED AT 23:44:53 ON 16 DEC 2009

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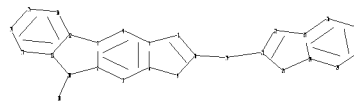
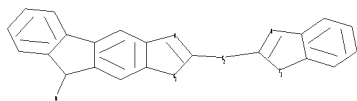
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<http://www.cas.org/support/stngen/stndoc/properties.html>

=>

Uploading C:\Program Files\STNEXP\Queries\105654141.str



```

chain nodes :
18 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 21 22 23 24 25 26 27
28 29
chain bonds :
8-19 10-18 19-21
ring bonds :
1-2 1-6 2-3 2-10 3-4 3-12 4-5 5-6 5-7 6-9 7-8 8-9 10-11 11-12 11-13
12-16 13-14 14-15 15-16 21-22 21-25 22-23 23-24 23-26 24-25 24-29 26-27
27-28 28-29
exact/norm bonds :
2-10 3-12 5-7 6-9 7-8 8-9 8-19 10-11 10-18 19-21 21-22 21-25 22-23
24-25
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-13 12-16 13-14 14-15 15-16 23-24
23-26 24-29 26-27 27-28 28-29
isolated ring systems :
containing 1 :

```

G1:O,S

G2:Cb,Cy,Hy

Match level :

```

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 18:CLASS 19:CLASS 21:Atom
22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom

```

L1 STRUCTURE UPLOADED

=> s l1 sss full
FULL SEARCH INITIATED 23:45:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 12236 TO ITERATE

100.0% PROCESSED 12236 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

L2 2 SEA SSS FUL L1

=> file capl
COST IN U.S. DOLLARS SINCE FILE TOTAL
 ENTRY SESSION
FULL ESTIMATED COST 185.88 186.10

FILE 'CAPLUS' ENTERED AT 23:45:28 ON 16 DEC 2009
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FILE COVERS 1907 - 16 Dec 2009 VOL 151 ISS 25
FILE LAST UPDATED: 15 Dec 2009 (20091215/ED)
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s l2

L3 1 L2

=> d l3 ibib hitstr

L3 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:656393 CAPLUS
DOCUMENT NUMBER: 145:124546
TITLE: Preparation of benzoxazole derivatives for the
 manufacture of ophthalmic lenses
INVENTOR(S): Kauffman, Joeel; Litak, Peter T.; Rickwood, Martin

PATENT ASSIGNEE(S): Essilor International (Compagnie Generale D'Optique),
Fr.
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006069811	A2	20060706	WO 2005-EP14202	20051230
WO 2006069811	A3	20070104		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
AU 2005321406	A1	20060706	AU 2005-321406	20051230
CA 2592585	A1	20060706	CA 2005-2592585	20051230
EP 1838682	A2	20071003	EP 2005-850391	20051230
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
JP 2008526708	T	20080724	JP 2007-548773	20051230
US 20080064880	A1	20080313	US 2006-565414	20060123
PRIORITY APPLN. INFO.:			US 2004-640506P	P 20041230
			WO 2005-EP14202	W 20051230

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): CASREACT 145:124546; MARPAT 145:124546

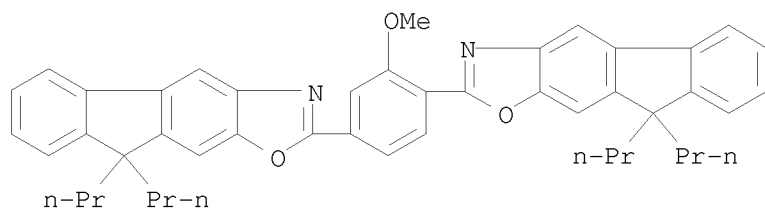
IT 897364-46-4P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of 9H-fluoreno[3,2-d]oxazole and benzoxazolylfluorene derivs. as optical lenses)

RN 897364-46-4 CAPLUS

CN 9H-Fluoreno[3,2-d]oxazole, 2,2'-(2-methoxy-1,4-phenylene)bis[9,9-dipropyl-(9CI) (CA INDEX NAME)



IT 897364-43-1P

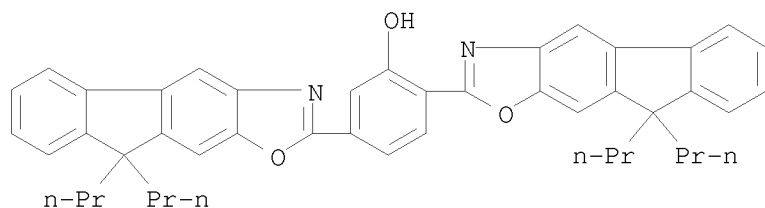
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(preparation of 9H-fluoreno[3,2-d]oxazole and benzoxazolylfluorene derivs. as optical lenses)

RN 897364-43-1 CAPLUS

CN Phenol, 2,5-bis(9,9-dipropyl-9H-fluoreno[3,2-d]oxazol-2-yl)- (CA INDEX

NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.89	190.99

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=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.96	191.95

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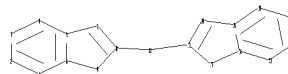
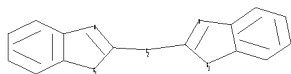
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=>

Uploading C:\Program Files\STNEXP\Queries\1056541412.str



chain nodes :

11

ring nodes :

1 2 3 4 5 6 7 8 9 13 14 15 16 17 18 19 20 21

chain bonds :

8-11 11-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 13-14 13-17 14-15 15-16 15-18
16-17 16-21 18-19 19-20 20-21

exact/norm bonds :

5-7 6-9 7-8 8-9 8-11 11-13 13-14 13-17 14-15 16-17

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 15-16 15-18 16-21 18-19 19-20 20-21

isolated ring systems :

containing 1 :

G1:O,S

G2:Cb,Cy,Hy

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 11:CLASS
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom

L4 STRUCTURE UPLOADED

=> s l4 sss full

FULL SEARCH INITIATED 23:48:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 115877 TO ITERATE

100.0% PROCESSED 115877 ITERATIONS

3331 ANSWERS

SEARCH TIME: 00.00.01

L5 3331 SEA SSS FUL L4

=> file capl

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

185.88

377.83

FILE 'CAPLUS' ENTERED AT 23:48:16 ON 16 DEC 2009

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FILE COVERS 1907 - 16 Dec 2009 VOL 151 ISS 25

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USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

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=> s l5

L6 2150 L5

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.50

378.33

FILE 'REGISTRY' ENTERED AT 23:48:22 ON 16 DEC 2009

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DICTIONARY FILE UPDATES: 15 DEC 2009 HIGHEST RN 1197459-30-5

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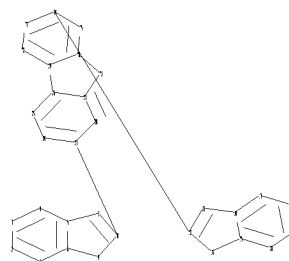
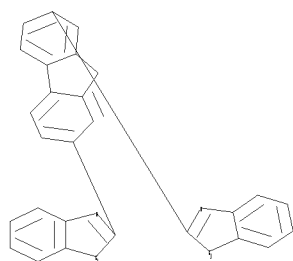
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=>

Uploading C:\Program Files\STNEXP\Queries\10565.str



```

ring nodes :
1  2  3  4  5  6  7  8  9 12 13 14 15 16 17 18 19 20 23 24 25 26 27
28 29 30 31 32 33 34 35
chain bonds :
8-23 12-34
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-9 7-8 8-9 12-16 12-13 13-14 14-15 14-17
15-16 15-20 17-18 18-19 19-20 23-24 23-28 24-25 25-26 26-27 26-29 27-28
27-31 29-30 29-32 30-31 30-35 32-33 33-34 34-35
exact/norm bonds :
5-7 6-9 7-8 8-9 8-23 12-16 12-13 12-34 13-14 15-16 26-29 27-31 30-31
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 14-15 14-17 15-20 17-18 18-19 19-20 23-24
23-28 24-25 25-26 26-27 27-28 29-30 29-32 30-35 32-33 33-34 34-35
isolated ring systems :
containing 1 :
```

G1:O,S

G2:Cb,Cy,Hy

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 12:Atom
13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 23:Atom
24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 29:Atom 30:CLASS 31:CLASS 32:Atom
33:Atom 34:Atom 35:Atom

L7 STRUCTURE UPLOADED

=> s 17 sss full

FULL SEARCH INITIATED 23:51:01 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 6905 TO ITERATE

100.0% PROCESSED 6905 ITERATIONS

28 ANSWERS

SEARCH TIME: 00.00.01

L8 28 SEA SSS FUL L7

=> file capl

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

187.80

566.13

FILE 'CAPLUS' ENTERED AT 23:51:04 ON 16 DEC 2009

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REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2009

USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2009

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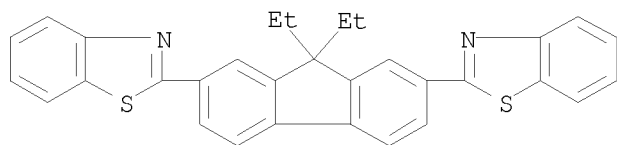
This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 18

L9 18 L8

=> d 19 1-18 ibib hitstr

L9 ANSWER 1 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2009:569288 CAPLUS
 DOCUMENT NUMBER: 151:77582
 TITLE: Photoexcitation mechanisms of centrosymmetric and asymmetric fluorene derivatives in two-photon absorption
 AUTHOR(S): Sun, Mengtao; Ding, Yong; Zhao, Lili; Ma, Fengcai
 CORPORATE SOURCE: Beijing National Laboratory for Condensed Matter Physics, Institute of Physics, Chinese Academy of Sciences, Beijing, 100080, Peop. Rep. China
 SOURCE: Chemical Physics (2009), 359(1-3), 166-172
 CODEN: CMPHC2; ISSN: 0301-0104
 PUBLISHER: Elsevier B.V.
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 IT 745079-41-8
 RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
 (photoexcitation mechanisms of centrosym. and asym. fluorene derivs. in two-photon absorption)
 RN 745079-41-8 CAPLUS
 CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)



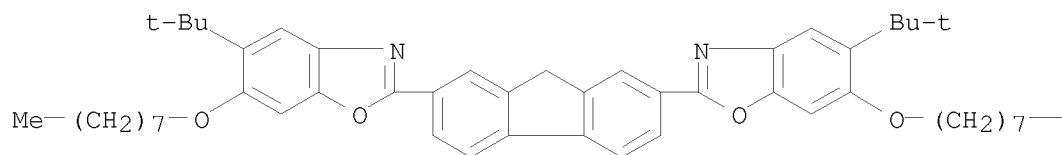
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
 REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 2 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 2008:1038813 CAPLUS
 DOCUMENT NUMBER: 149:319669
 TITLE: Ultraviolet ray-absorbing films and the filters therewith for display panels
 INVENTOR(S): Mori, Hideto; Sato, Tadahisa
 PATENT ASSIGNEE(S): Fuji Photo Film Co., Ltd., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 31pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2008195830	A	20080828	JP 2007-32459	20070213
PRIORITY APPLN. INFO.:			JP 2007-32459	20070213
OTHER SOURCE(S):			MARPAT 149:319669	
IT 1050447-32-9				
RL: PRPH (Prophetic) (films containing UV absorbers and fluorescent whiteners for films for filters for display panels)				
RN 1050447-32-9 CAPLUS				

CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



PAGE 1-B

— Me

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)

L9 ANSWER 3 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:1167259 CAPLUS

DOCUMENT NUMBER: 148:65395

TITLE: Two-Photon Absorption Cross Section Determination for
Fluorene Derivatives: Analysis of the Methodology and
Elucidation of the Origin of the Absorption Processes

AUTHOR(S): Belfield, Kevin D.; Bondar, Mykhailo V.; Hernandez,
Florencio E.; Przhonska, Olga V.; Yao, Sheng

CORPORATE SOURCE: Department of Chemistry and CREOL, College of Optics
and Photonics, University of Central Florida, Orlando,
FL, 32816-2366, USA

SOURCE: Journal of Physical Chemistry B (2007), 111(44),
12723-12729

CODEN: JPCBFK; ISSN: 1520-6106

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal

LANGUAGE: English

IT 745079-41-8

RL: PRP (Properties)

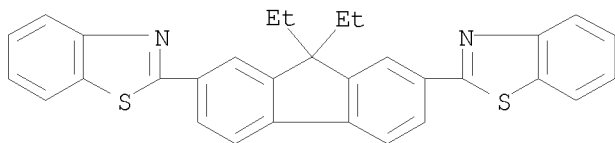
(two-photon absorption cross section determination for fluorene derivs.:

anal.

of methodol. and elucidation of origin of absorption processes)

RN 745079-41-8 CAPLUS

CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX
NAME)

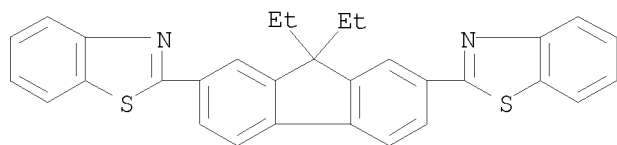


OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS
RECORD (14 CITINGS)

REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 4 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:469336 CAPLUS
DOCUMENT NUMBER: 147:222091
TITLE: Solvent effect on the steady-state fluorescence anisotropy of two-photon absorbing fluorene derivatives
AUTHOR(S): Belfield, Kevin D.; Bondar, Mykhailo V.; Kachkovsky, Oleksiy D.; Przhonska, Olga V.; Yao, Sheng
CORPORATE SOURCE: Department of Chemistry and CREOL, College of Optics and Photonics, University of Central Florida, Orlando, FL, 32816-2366, USA
SOURCE: Journal of Luminescence (2007), 126(1), 14-20
CODEN: JLUMA8; ISSN: 0022-2313
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 745079-41-8
RL: PRP (Properties)
(solvent effect on steady-state fluorescence anisotropy of two-photon absorbing fluorene derivs.)
RN 745079-41-8 CAPLUS
CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)

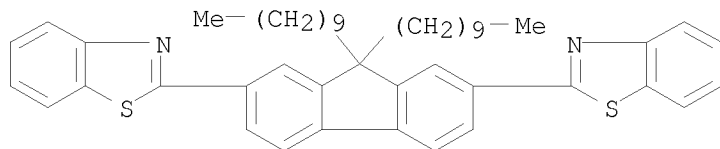


OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2007:997 CAPLUS
DOCUMENT NUMBER: 146:337390
TITLE: Two-photon photochromism of a diarylethene enhanced by Forster resonance energy transfer from two-photon absorbing fluorenes
AUTHOR(S): Belfield, Kevin D.; Bondar, Mykhailo V.; Corredor, Claudia C.; Hernandez, Florencio E.; Przhonska, Olga V.; Yao, Sheng
CORPORATE SOURCE: Department of Chemistry and College of Optics and Photonics CREOL and FPCE, University of Central Florida, Orlando, FL, 32816, USA
SOURCE: ChemPhysChem (2006), 7(12), 2514-2519
CODEN: CPCHFT; ISSN: 1439-4235
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 745079-42-9
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(two-photon photochromism of a diarylethene enhanced by Forster resonance energy transfer from two-photon absorbing fluorenes)
RN 745079-42-9 CAPLUS
CN Benzothiazole, 2,2'-(9,9-didecyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)

NAME)



OS.CITING REF COUNT: 8 THERE ARE 8 CAPLUS RECORDS THAT CITE THIS RECORD (8 CITINGS)
REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 6 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:854706 CAPLUS

DOCUMENT NUMBER: 146:496250

TITLE: Fluorene-based fluorescent probes for two-photon imaging applications

AUTHOR(S): Belfield, Kevin D.; Morales, Alma R.; Schafer-Hales, Katherine J.; Yao, Sheng

CORPORATE SOURCE: Department of Chemistry and CREOL, College of Optics and Photonics, University of Central Florida, Orlando, FL, 32816, USA

SOURCE: Polymer Preprints (American Chemical Society, Division of Polymer Chemistry) (2006), 47(2), 1006-1007
CODEN: ACPPAY; ISSN: 0032-3934

PUBLISHER: American Chemical Society, Division of Polymer Chemistry

DOCUMENT TYPE: Journal; (computer optical disk)

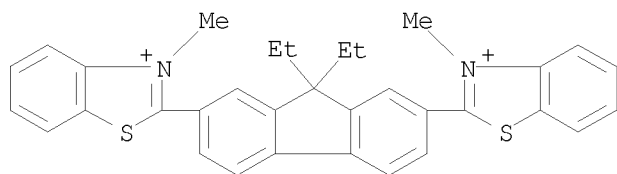
LANGUAGE: English

IT 936292-04-5 936292-14-7

RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(fluorene-based fluorescent probes for two-photon imaging applications)

RN 936292-04-5 CAPLUS

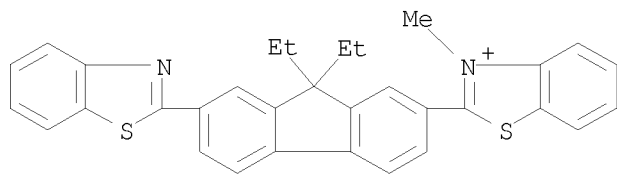
CN Benzothiazolium, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis[3-methyl-, iodide (1:2) (CA INDEX NAME)



● 2 I⁻

RN 936292-14-7 CAPLUS

CN Benzothiazolium, 2-[7-(2-benzothiazolyl)-9,9-diethyl-9H-fluorene-2-yl]-3-methyl-, iodide (1:1) (CA INDEX NAME)



● I-

OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD
(1 CITINGS)
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:656393 CAPLUS

DOCUMENT NUMBER: 145:124546

TITLE: Preparation of benzoxazole derivatives for the
manufacture of ophthalmic lenses

INVENTOR(S): Kauffman, Joeel; Litak, Peter T.; Rickwood, Martin

PATENT ASSIGNEE(S): Essilor International (Compagnie Generale D'Optique),
Fr.

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006069811	A2	20060706	WO 2005-EP14202	20051230
WO 2006069811	A3	20070104		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
AU 2005321406	A1	20060706	AU 2005-321406	20051230
CA 2592585	A1	20060706	CA 2005-2592585	20051230
EP 1838682	A2	20071003	EP 2005-850391	20051230
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2008526708	T	20080724	JP 2007-548773	20051230
US 20080064880	A1	20080313	US 2006-565414	20060123
PRIORITY APPLN. INFO.:			US 2004-640506P	P 20041230
			WO 2005-EP14202	W 20051230

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

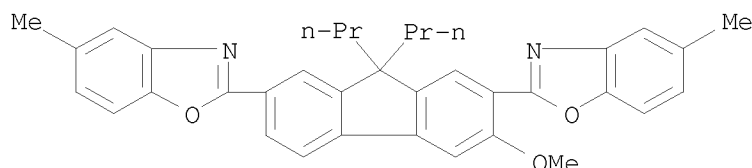
OTHER SOURCE(S): CASREACT 145:124546; MARPAT 145:124546

IT 897364-52-2P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(preparation of 9H-fluoreno[3,2-d]oxazole and benzoxazolylfluorene derivs.
as optical lenses)

RN 897364-52-2 CAPLUS

CN Benzoxazole, 2,2'-(3-methoxy-9,9-dipropyl-9H-fluorene-2,7-diyl)bis[5-
methyl- (CA INDEX NAME)

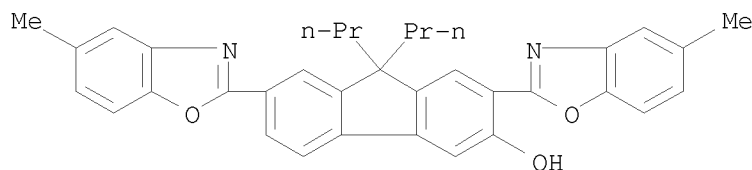


IT 897364-44-2P

RL: SPN (Synthetic preparation); TEM (Technical or engineered material
use); PREP (Preparation); USES (Uses)
(preparation of 9H-fluoreno[3,2-d]oxazole and benzoxazolylfluorene derivs.
as optical lenses)

RN 897364-44-2 CAPLUS

CN 9H-Fluorene-3-ol, 2,7-bis(5-methyl-2-benzoxazolyl)-9,9-dipropyl- (CA INDEX
NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2006:110162 CAPLUS

DOCUMENT NUMBER: 144:340263

TITLE: Two-photon anisotropy: Analytical description and
molecular modeling for symmetrical and asymmetrical
organic dyes

AUTHOR(S): Fu, Jie; Przhonska, Olga V.; Padilha, Lazaro A.;
Hagan, David J.; Van Stryland, Eric W.; Belfield,
Kevin D.; Bondar, Mikhail V.; Slominsky, Yuriy L.;
Kachkovski, Alexei D.

CORPORATE SOURCE: College of Optics and Photonics: CREOL & FPCE,
University of Central Florida, Orlando, FL, 32816, USA

SOURCE: Chemical Physics (2006), 321(3), 257-268

CODEN: CMPHC2; ISSN: 0301-0104

PUBLISHER: Elsevier B.V.

DOCUMENT TYPE: Journal

LANGUAGE: English

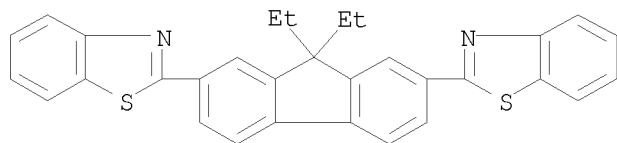
IT 745079-41-8

RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
(Physical process); PROC (Process)
(two-photon anisotropy and anal. description and mol. modeling for sym.
and asym. organic dyes)

RN 745079-41-8 CAPLUS

CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX

NAME)



OS.CITING REF COUNT: 17 THERE ARE 17 CAPLUS RECORDS THAT CITE THIS RECORD (17 CITINGS)
REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 9 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:1318342 CAPLUS

DOCUMENT NUMBER: 145:154535

TITLE: Excited-state absorption and anisotropy properties of two-photon absorbing fluorene derivatives

AUTHOR(S): Belfield, Kevin D.; Bondar, Mykhailo V.; Cohanoschi, I.; Hernandez, Florencio E.; Kachkovsky, Oleksiy D.; Przhonska, Olga V.; Yao, Sheng

CORPORATE SOURCE: Department of Chemistry and College of Optics and Photonics, Center for Research and Education in Optics and Laser and Florida Photonics Center of Excellence, University of Central Florida, Orlando, FL, 32816-2366, USA

SOURCE: Applied Optics (2005), 44(33), 7232-7238

CODEN: APOPAI; ISSN: 0003-6935

PUBLISHER: Optical Society of America

DOCUMENT TYPE: Journal

LANGUAGE: English

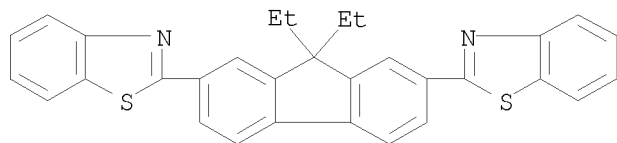
IT 745079-41-8

RL: PRP (Properties)

(excited-state absorption and anisotropy properties of two-photon absorbing fluorene derivs.)

RN 745079-41-8 CAPLUS

CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 6 THERE ARE 6 CAPLUS RECORDS THAT CITE THIS RECORD (6 CITINGS)
REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 10 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

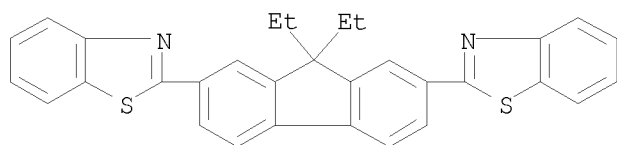
ACCESSION NUMBER: 2005:1076336 CAPLUS

DOCUMENT NUMBER: 144:138225

TITLE: Nonlinear absorption and refraction measurements of Fluorene-based molecules via Picosecond Z-scans

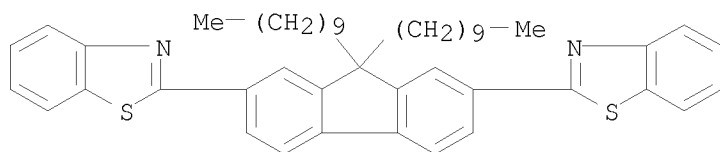
AUTHOR(S): Gvishi, Raz; McMillian, Tarik H.; Hagan, David J.; Van Stryland, Eric W.; Schafer, Katherine J.; Yao, Sheng; Belfield, Kevin D.

CORPORATE SOURCE: College of Optics and Photonics: CREOL/FPCE, Univ. of
Central Florida, Orlando, FL, 32816-2700, USA
SOURCE: Proceedings of SPIE-The International Society for
Optical Engineering (2005), 5934(Nonlinear Optical
Transmission and Multiphoton Processes in Organics
III), 59340C/1-59340C/8
CODEN: PSISDG; ISSN: 0277-786X
PUBLISHER: SPIE-The International Society for Optical Engineering
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 745079-41-8
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
(Physical process); PROC (Process)
(nonlinear absorption and refraction measurements of fluorene-based
mols. via picosecond Z-scans)
RN 745079-41-8 CAPLUS
CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX
NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

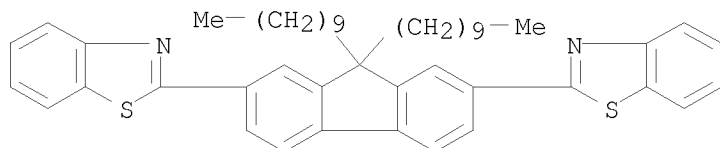
L9 ANSWER 11 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:319359 CAPLUS
DOCUMENT NUMBER: 143:50061
TITLE: Three-photon absorption enhancement in symmetrical
charge transfer pull-pull fluorene derivatives
AUTHOR(S): Cohanoschi, Ion; Belfield, Kevin D.; Hernandez,
Florencio E.
CORPORATE SOURCE: Department of Chemistry and School of Optics: CREOL &
FPCE, University of Central Florida, Orlando, FL,
32816-2366, USA
SOURCE: Chemical Physics Letters (2005), 406(4-6), 462-466
CODEN: CHPLBC; ISSN: 0009-2614
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 745079-42-9
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PYP
(Physical process); PROC (Process)
(three-photon absorption enhancement in sym. charge transfer pull-pull
fluorene derivs. upconversion fluorescence)
RN 745079-42-9 CAPLUS
CN Benzothiazole, 2,2'-(9,9-didecyl-9H-fluorene-2,7-diyl)bis- (CA INDEX
NAME)



OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS RECORD (14 CITINGS)
REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 12 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2005:268872 CAPLUS
DOCUMENT NUMBER: 142:464100
TITLE: Synthesis and characterization of novel rigid two-photon absorbing polymers
AUTHOR(S): Belfield, Kevin D.; Yao, Sheng; Morales, Alma R.; Hales, Joel M.; Hagan, David J.; Van Stryland, Eric W.; Chapela, Victor M.; Percino, Judith
CORPORATE SOURCE: Department of Chemistry, College of Optics and Photonics: CREOL & FPCE, University of Central Florida, Orlando, FL, 32816-2366, USA
SOURCE: Polymers for Advanced Technologies (2005), 16(2-3), 150-155
CODEN: PADTE5; ISSN: 1042-7147
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 745079-42-9P, 2,7-Bisbenzothiazole-9,9-Didecylfluorene
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(model compound; synthesis and characterization of novel rigid two-photon absorbing polymers)
RN 745079-42-9 CAPLUS
CN Benzothiazole, 2,2'-(9,9-didecyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)

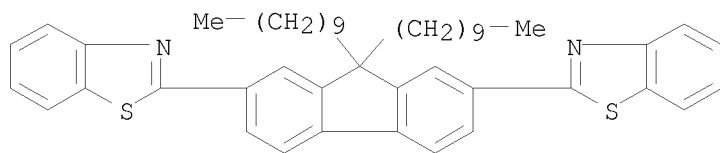


OS.CITING REF COUNT: 4 THERE ARE 4 CAPLUS RECORDS THAT CITE THIS RECORD (4 CITINGS)
REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 13 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:670129 CAPLUS
DOCUMENT NUMBER: 141:303847
TITLE: Two-photons and beyond: 2, 3 and 4 photon absorption in conjugated fluorenes
AUTHOR(S): Belfield, Kevin D.; Hernandez, Florencio E.; Cohanoschi, Ion; Bondar, Mykhailo V.; Van Stryland, Eric W.
CORPORATE SOURCE: Department of Chemistry and School of Optics: CREOL and FPCE, University of Central Florida, Orlando, FL, 32816-2366, USA
SOURCE: PMSE Preprints (2004), 91, 346-347
CODEN: PPMRA9; ISSN: 1550-6703
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal; (computer optical disk)
LANGUAGE: English
IT 745079-42-9
RL: PRP (Properties)
(multi-photon absorption in conjugated fluorenes)

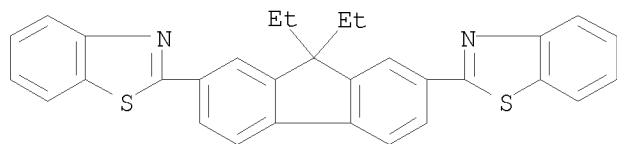
RN 745079-42-9 CAPLUS
CN Benzothiazole, 2,2'-(9,9-didecyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)



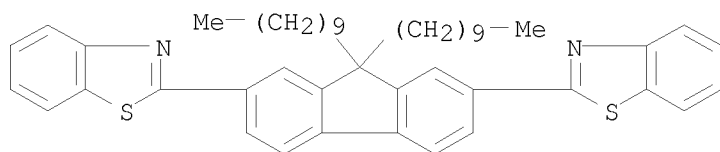
OS.CITING REF COUNT: 1 THERE ARE 1 CAPLUS RECORDS THAT CITE THIS RECORD (1 CITINGS)
REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 14 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:543643 CAPLUS
DOCUMENT NUMBER: 141:313812
TITLE: Synthesis, Characterization, and Optical Properties of New Two-Photon-Absorbing Fluorene Derivatives
AUTHOR(S): Belfield, Kevin D.; Morales, Alma R.; Kang, Bong-Soo; Hales, Joel M.; Hagan, David J.; Van Stryland, Eric W.; Chapela, Victor M.; Percino, Judith
CORPORATE SOURCE: Department of Chemistry and College of Optics and Photonics: CREOL FPCE, University of Central Florida, Orlando, FL, 32816, USA
SOURCE: Chemistry of Materials (2004), 16(23), 4634-4641
CODEN: CMATEX; ISSN: 0897-4756
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:313812
IT 745079-41-8P 745079-42-9P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation) (synthesis, characterization, and optical spectra of two-photon-absorbing fluorene derivs.)

RN 745079-41-8 CAPLUS
CN Benzothiazole, 2,2'-(9,9-diethyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)



RN 745079-42-9 CAPLUS
CN Benzothiazole, 2,2'-(9,9-didecyl-9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 48 THERE ARE 48 CAPLUS RECORDS THAT CITE THIS
RECORD (48 CITINGS)
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 15 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:849756 CAPLUS
DOCUMENT NUMBER: 137:360139
TITLE: Double-spiro organic compounds and electroluminescent
devices
INVENTOR(S): Kim, Kong-Kyeum; Son, Se-Hwan; Yoon, Seok-Hee; Bae,
Jae-Soon; Lee, Youn-Gu; Im, Sung-Gap; Kim, Ji-Eun;
Lee, Jae-Chol
PATENT ASSIGNEE(S): LG Chem, Ltd., S. Korea
SOURCE: PCT Int. Appl., 117 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002088274	A1	20021107	WO 2002-KR458	20020318
W: CN, JP				
RW: AT, BE, CH, PT, SE, TR				
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				
KR 2002083614	A	20021104	KR 2001-23038	20010427
KR 2002083615	A	20021104	KR 2001-23039	20010427
US 20040023060	A1	20040205	US 2002-99781	20020314
US 6998487	B2	20060214		
EP 1294823	A1	20030326	EP 2002-705589	20020318
EP 1294823	B1	20061213		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, FI, CY, TR				
JP 2004529937	T	20040930	JP 2002-585559	20020318
JP 3971310	B2	20070905		
EP 1645552	A1	20060412	EP 2005-20697	20020318
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,				
IE, FI, CY, TR				
AT 348136	T	20070115	AT 2002-705589	20020318
ES 2274003	T3	20070516	ES 2002-705589	20020318
CN 100488923	C	20090520	CN 2002-801380	20020318
TW 591096	B	20040611	TW 2002-91105844	20020326
US 20040170863	A1	20040902	US 2003-718083	20031119
US 6984462	B2	20060110		
PRIORITY APPLN. INFO.:			KR 2001-23038	A 20010427
			KR 2001-23039	A 20010427
			US 2002-99781	A3 20020314
			EP 2002-705589	A3 20020318
			WO 2002-KR458	W 20020318

ASSIGNMENT HISTORY FOR US PATENT AVAILABLE IN LSUS DISPLAY FORMAT

OTHER SOURCE(S): MARPAT 137:360139

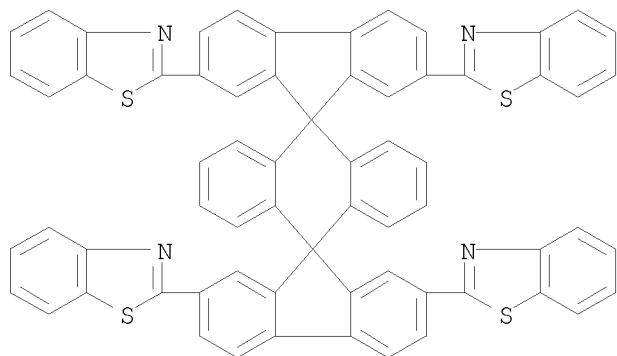
IT 474688-44-3

RL: DEV (Device component use); USES (Uses)

(double-spiro organic compds. and electroluminescent devices using them)

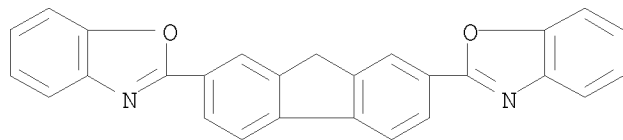
RN 474688-44-3 CAPLUS

CN Benzothiazole, 2,2',2'',2'''-dispiro[9H-fluorene-9,9'(10'H)-anthracene-
10',9''-[9H]fluorene]-2,2'',7,7'''-tetrayltetrakis- (9CI) (CA INDEX NAME)



OS.CITING REF COUNT: 10 THERE ARE 10 CAPLUS RECORDS THAT CITE THIS
RECORD (16 CITINGS)
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 16 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:1773 CAPLUS
DOCUMENT NUMBER: 132:129270
TITLE: Computational methods as an aid in the design of
fluorophores with predictable absorption and emission
wavelengths
AUTHOR(S): Fabian, Walter M. F.; Kauffman, Joel M.
CORPORATE SOURCE: Institut fur Organische Chemie, Karl-Franzens
Universitat Graz, Graz, A-8010, Austria
SOURCE: Journal of Luminescence (1999), 85(1-3), 137-148
CODEN: JLUMA8; ISSN: 0022-2313
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 36298-98-3
RL: PEP (Physical, engineering or chemical process); PRP (Properties);
PROC (Process)
(quantum chemical calcn. of absorption and fluorescence wavelengths of
fluorophores)
RN 36298-98-3 CAPLUS
CN Benzoxazole, 2,2'-(9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)

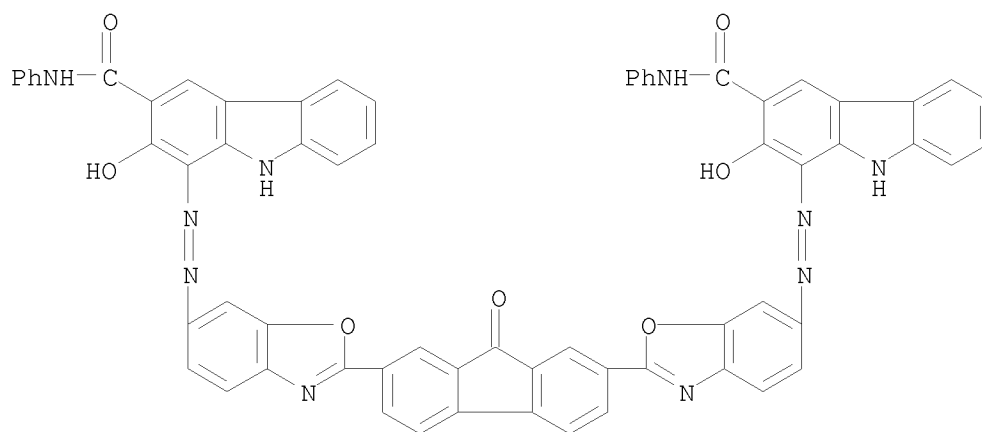


OS.CITING REF COUNT: 14 THERE ARE 14 CAPLUS RECORDS THAT CITE THIS
RECORD (14 CITINGS)
REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 17 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1988:640653 CAPLUS
DOCUMENT NUMBER: 109:240653
ORIGINAL REFERENCE NO.: 109:39654h, 39655a
TITLE: Charge-generating disazo pigment for
electrophotographic photoconductor

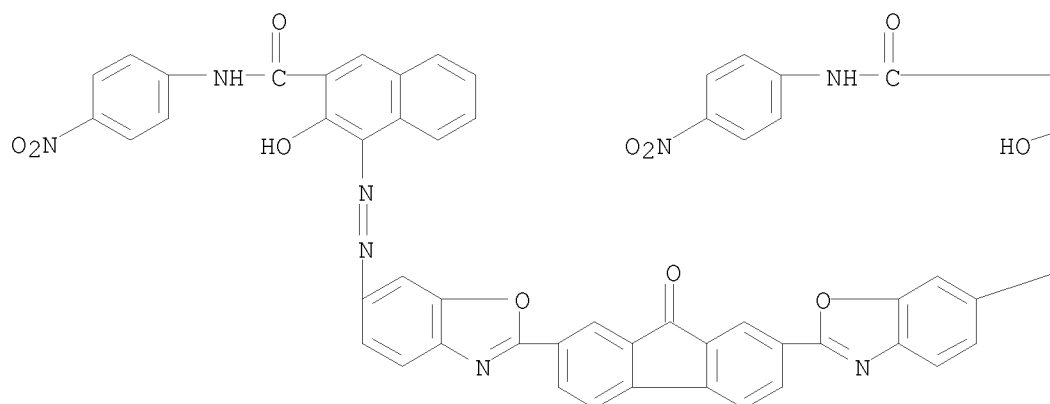
INVENTOR(S): Sakai, Kiyoshi; Okunuki, Masami
 PATENT ASSIGNEE(S): Canon K. K., Japan
 SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
 CODEN: JKXXAF
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	JP 63180961	A	19880726	JP 1987-11335	19870122
PRIORITY APPLN. INFO.:				JP 1987-11335	19870122
OTHER SOURCE(S):	MARPAT 109:240653				
IT	117714-55-3	117714-56-4	117714-57-5		
	117714-58-6	117714-59-7	117714-60-0		
	117714-61-1	117714-62-2	117714-63-3		
	117714-64-4	117714-65-5	117714-66-6		
	117736-21-7	117736-22-8	117736-23-9		
RL:	TEM (Technical or engineered material use); USES (Uses) (electrophotog. charge-generating agent)				
RN	117714-55-3	CAPLUS			
CN	9H-Carbazole-3-carboxamide, 1,1'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[2-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)				

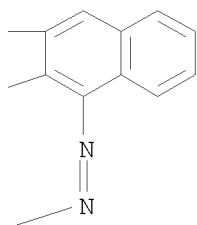


RN 117714-56-4 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[3-hydroxy-N-(4-nitrophenyl)- (9CI) (CA INDEX NAME)

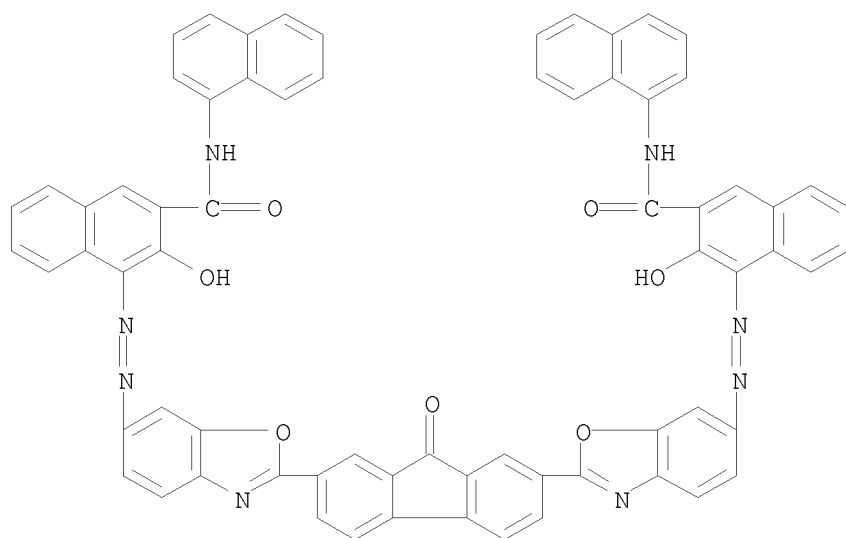
PAGE 1-A



PAGE 1-B

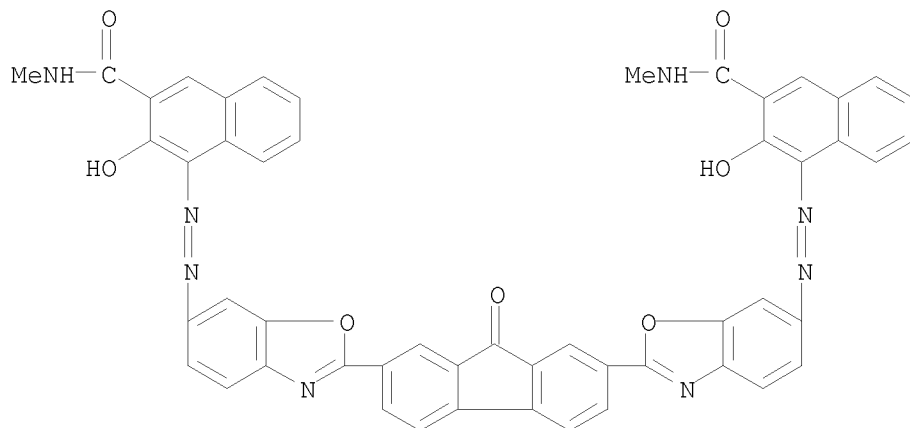


RN 117714-57-5 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[3-hydroxy-N-1-naphthalenyl- (9CI) (CA INDEX NAME)



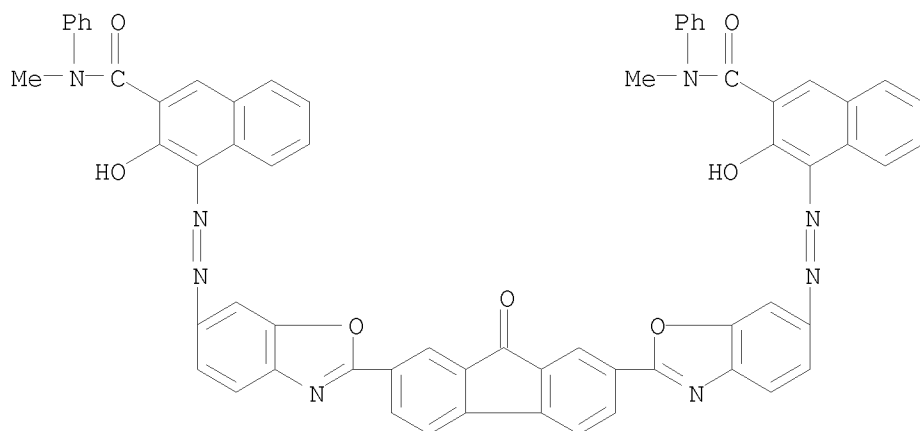
RN 117714-58-6 CAPLUS

CN 2-Naphthalenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediyazo)]bis[3-hydroxy-N-methyl- (9CI) (CA INDEX NAME)



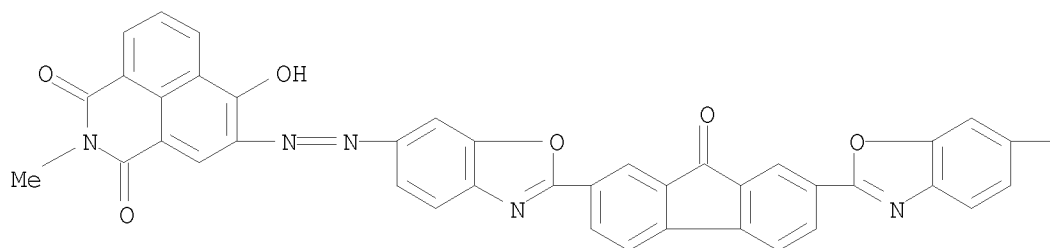
RN 117714-59-7 CAPLUS

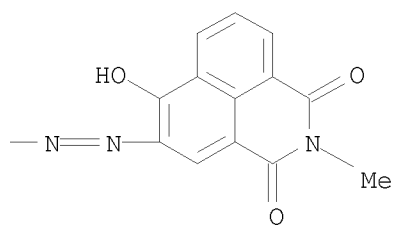
CN 2-Naphthalenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediyazo)]bis[3-hydroxy-N-methyl-N-phenyl- (9CI) (CA INDEX NAME)



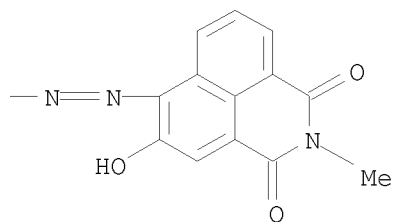
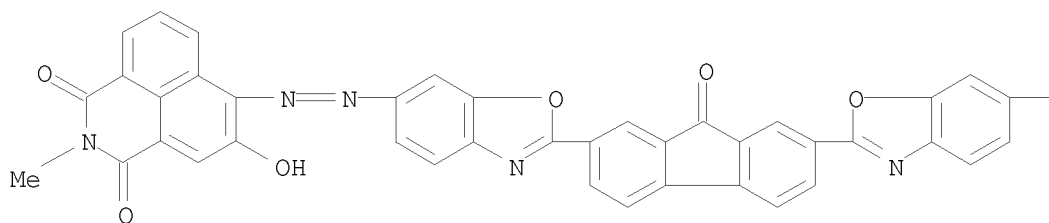
RN 117714-60-0 CAPLUS

CN 1H-Benz[de]isoquinoline-1,3(2H)-dione, 5,5'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediyazo)]bis[6-hydroxy-2-methyl- (9CI) (CA INDEX NAME)

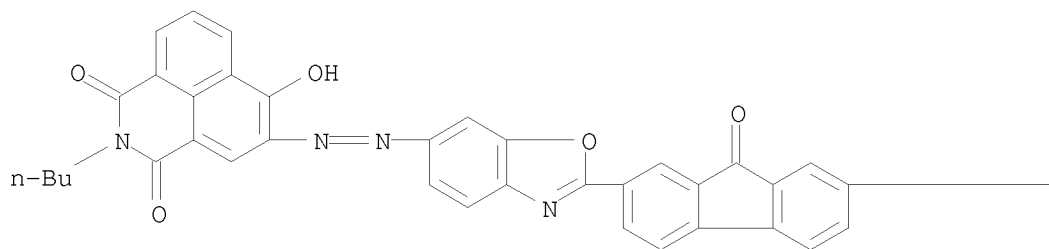




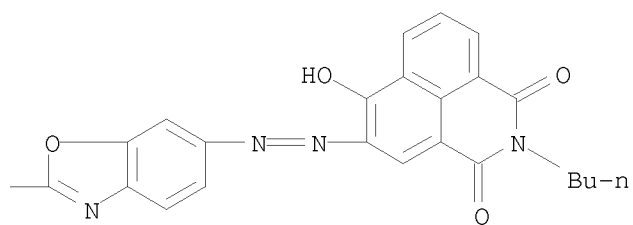
RN 117714-61-1 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione,
 6,6'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediyazo)]bis[5-
 hydroxy-2-methyl- (9CI) (CA INDEX NAME)



RN 117714-62-2 CAPLUS
 CN 1H-Benz[de]isoquinoline-1,3(2H)-dione,
 5,5'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediyazo)]bis[2-butyl-
 6-hydroxy- (9CI) (CA INDEX NAME)

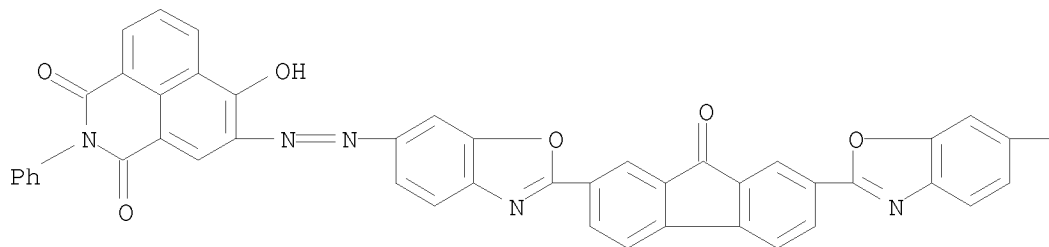


PAGE 1-B

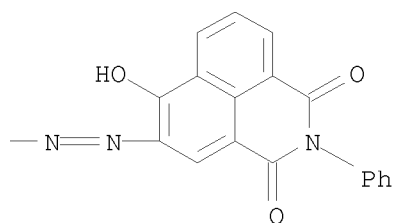


RN 117714-63-3 CAPLUS
CN 1H-Benz[de]isoquinoline-1,3(2H)-dione,
5,5'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[6-
hydroxy-2-phenyl- (9CI) (CA INDEX NAME)

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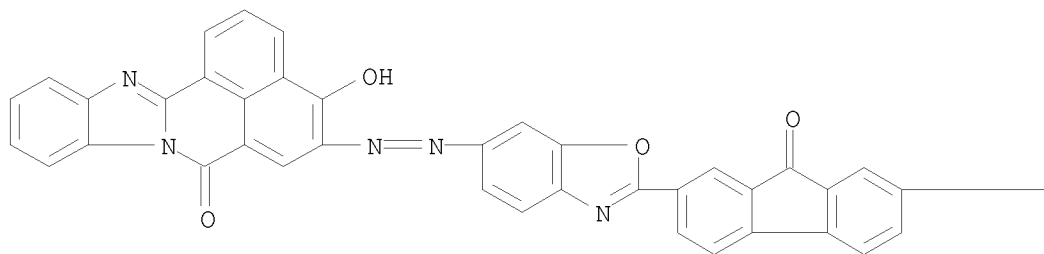


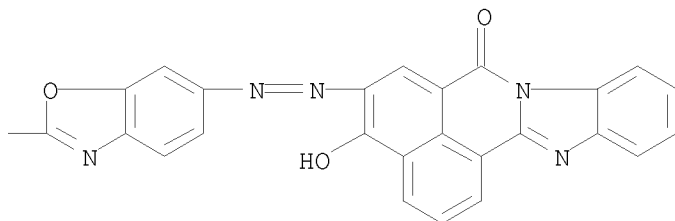
PAGE 1-B



RN 117714-64-4 CAPLUS
CN 7H-Benzimidazo[2,1-a]benz[de]isoquinolin-7-one,
5,5'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[4-
hydroxy- (9CI) (CA INDEX NAME)

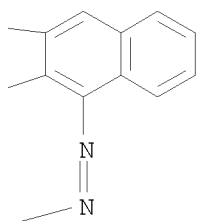
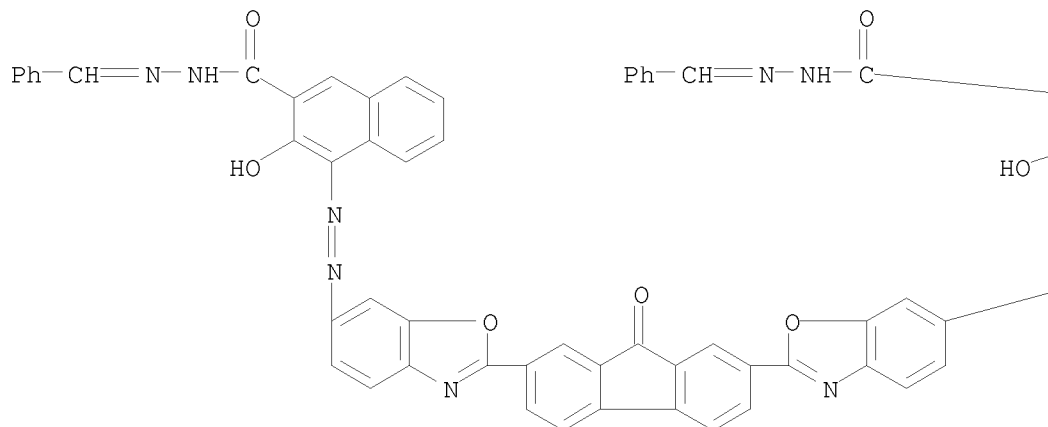
PAGE 1-A





RN 117714-65-5 CAPLUS

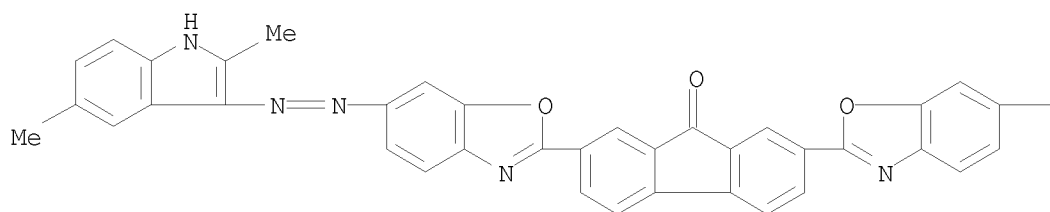
CN 2-Naphthalenecarboxylic acid, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[3-hydroxy-, bis[(phenylmethylene)hydrazide] (9CI)
(CA INDEX NAME)



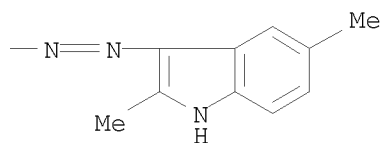
RN 117714-66-6 CAPLUS

CN 9H-Fluoren-9-one, 2,7-bis[6-[2-(2,5-dimethyl-1H-indol-3-yl)diazenyl]-2-benzoxazolyl]- (CA INDEX NAME)

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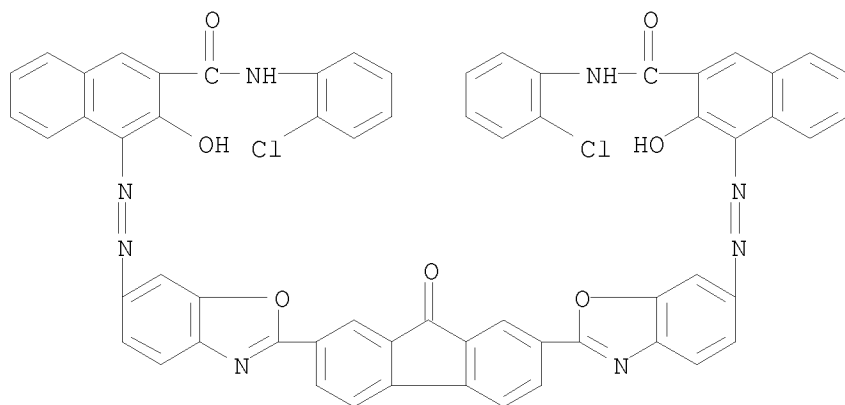


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RN 117736-21-7 CAPLUS

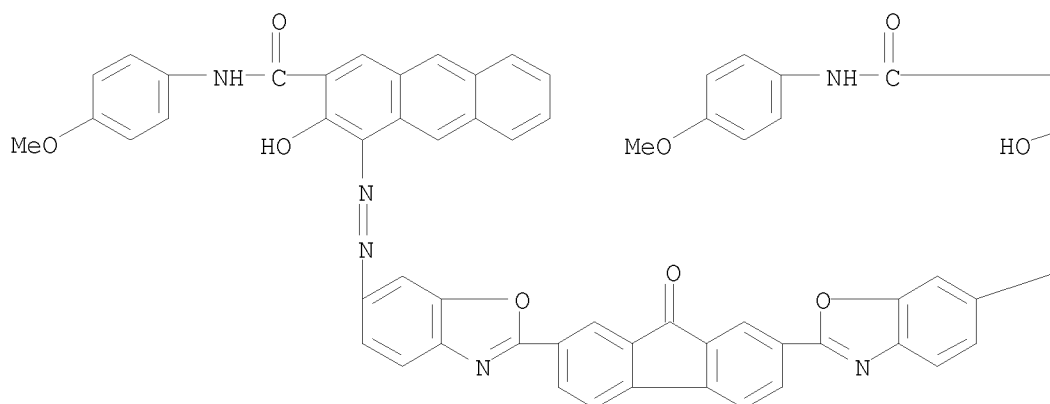
CN 2-Naphthalenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[N-(2-chlorophenyl)-3-hydroxy- (9CI) (CA INDEX NAME)]



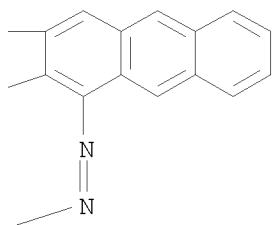
RN 117736-22-8 CAPLUS

CN 2-Anthracenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[3-hydroxy-N-(4-methoxyphenyl)- (9CI) (CA INDEX NAME)]

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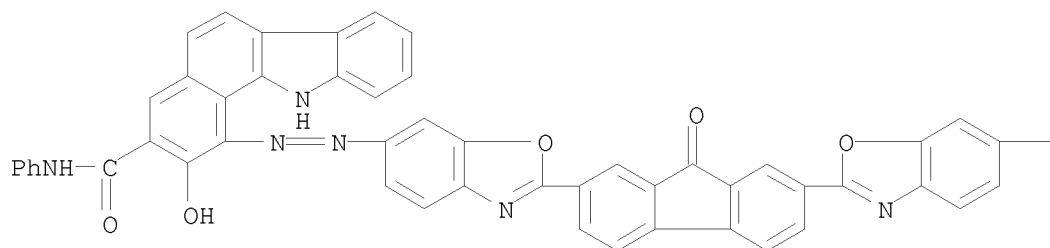


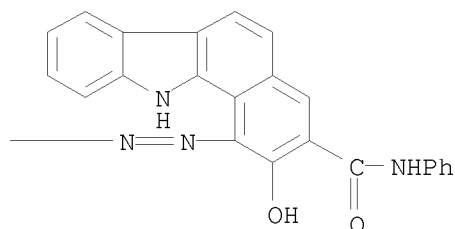
PAGE 1-B



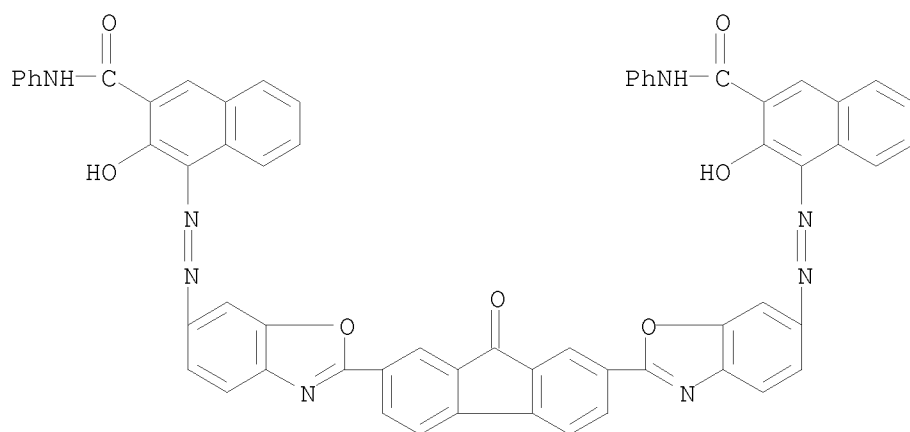
RN 117736-23-9 CAPLUS
 CN 11H-Benzo[a]carbazole-3-carboxamide,
 1,1'-[(9-oxo-9H-fluorene-2,7-diyl) bis(2,6-benzoxazolediylazo)] bis[2-
 hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

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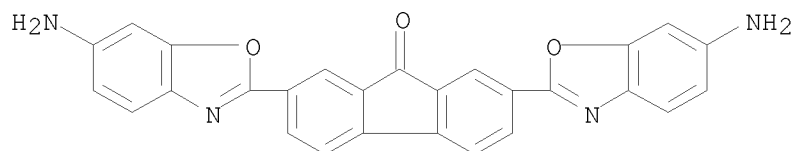




IT 117714-54-2P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation and use of, as electrophotog. charge-generating agent)
 RN 117714-54-2 CAPLUS
 CN 2-Naphthalenecarboxamide, 4,4'-[(9-oxo-9H-fluorene-2,7-diyl)bis(2,6-benzoxazolediylazo)]bis[3-hydroxy-N-phenyl- (9CI) (CA INDEX NAME)

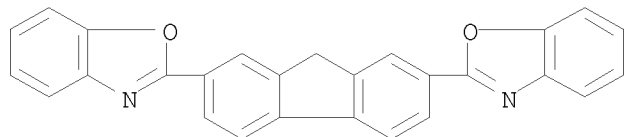


IT 117714-53-1
 RL: USES (Uses)
 (tetrazotization of, intermediate for electrophotog. charge-generating
 disazo pigment from)
 RN 117714-53-1 CAPLUS
 CN 9H-Fluoren-9-one, 2,7-bis(6-amino-2-benzoxazolyl)- (CA INDEX NAME)



L9 ANSWER 18 OF 18 CAPLUS COPYRIGHT 2009 ACS on STN
 ACCESSION NUMBER: 1972:153094 CAPLUS
 DOCUMENT NUMBER: 76:153094
 ORIGINAL REFERENCE NO.: 76:24937a,24940a
 TITLE: Fluorescence of aromatic benzoxazole derivatives
 AUTHOR(S): Reiser, A.; Leyshon, L. J.; Saunders, D.; Mijovic, M.
 V.; Bright, A.; Bogie, J.
 CORPORATE SOURCE: Res. Lab., Kodak Ltd., Wealdstone/Harrow/Middlesex, UK

SOURCE: Journal of the American Chemical Society (1972),
94(7), 2414-21
CODEN: JACSAT; ISSN: 0002-7863
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 36298-98-3
RL: PRP (Properties)
(fluorescence and uv spectrum of)
RN 36298-98-3 CAPLUS
CN Benzoxazole, 2,2'-(9H-fluorene-2,7-diyl)bis- (CA INDEX NAME)



OS.CITING REF COUNT: 38 THERE ARE 38 CAPLUS RECORDS THAT CITE THIS
RECORD (38 CITINGS)

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